

Name: _____ Date: _____ Period: _____

Special Lines Quiz

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Fill in the blank for each sentence. (1 point each)

A vertical line has an _____ slope.

A horizontal line has a _____ slope.

Parallel lines have the _____ slope.

The slope of two perpendicular lines is described as the _____ of each other.

Identify which lines are parallel. (1 point)

a. $y = \frac{5}{3}x$

b. $y = 3x + 2$

c. $y = x + 4$

d. $y = 3x - 1$

Identify which lines are perpendicular. (1 point)

a. $y = 2x + 1$

b. $y = -2x$

c. $y = x - 2$

d. $y = -\frac{1}{2}x$

Use the given information to answer each question. (2 points each)

Write the equation of the line that contains (2, 1) and is perpendicular to $y = -\frac{1}{2}x + 3$

Write the equation of the line that contains (6, 2) and is perpendicular to $y = -2x + 7$

Determine if the two lines are parallel. (2 points each)

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Given the equation $y = 2x + 3$. Answer the following questions. (2 points each)

Write an equation that is parallel to $y = 2x + 3$.

Write an equation that is perpendicular to $y = 2x + 3$.

Graph your two equations with $y = 2x + 3$. Be sure to label each line!

